

In-Depth Inspection Report for

City of Margate

Margate, FL



2MG CONCRETE GST - City of Margate WTP 92'D x 40'H

2,000,000 Gallons

Concrete On-Grade

Constructed Date: 1983

Inspection Date: 4/1/25

Person Completing Report: A.S.

Supervisor: A.S.

Team: Alpha #2

Engineer: R.N.



Scope of Work:

Our Dive team has performed and completed a full in water clean/sediment removal to the previously referenced tank. Sediment depths, ranging from 1/16' - 1/4", were removed from the tanks floor and/or walls. Upon the completion of the cleaning services, our surveying crew and inspection team has taken this structure under full evaluation (internally & externally) to prepared an "In Depth" visual inspection (NDT) of this referenced tank and its fixtures. The evaluation taken on the condition of this tank, complies with all related ANSI/AWWA codes (Standard C652.02). All NDT (non-destructive testing) have been performed up to code, in order to identify the structural integrity as well as the coating condition of this structure. All operable plumbing components have been inspected and evaluated within this report. All evaluations done, where performed in according to American Water Works Association (AWWA), NACE, SSPC, ASNT, ACI and AWS standards under the guidance of OSHA, DEP, and EPA regulations. Utilizing the necessary and proper procedures, the tank has been left internal in sanitary condition. Elements found prior to clean as well as details of the inspection and its findings have been included within the report below.

Summary of the Inspection:

Exterior Inspection

1. Easy access to tank w/ locked and secured perimeter
2. Locked access hatch & vandal guard
3. Preexisting repair patches are in good to fair condition
4. Minor to moderate small to medium blistering unlocalized throughout roof
5. Minor to moderate undermining localized in areas of exposed foundation

Interior Inspection

1. Minor to moderate corrosion present throughout outlet, inlet, & drain
2. Moderate to Heavy gasket deterioration on manway
3. Moderate small to medium blistering noted throughout manway protective coating
4. Float guide wires & center cable not properly set (loose)
5. Moderate to heavy galvanic corrosion & rust noduling unlocalized throughout manway lid
6. Minor to moderate hairline / shrinkage cracking unlocalized throughout wall
7. Minor to moderate exposed reinforcements unlocalized throughout roof

Key

Excellent – Like new, no repairs needed
Good – Cosmetic problems, repair if client wants
Fair – Minor problems, repairs needed
Poor – Major problems, fix now



Recommendations:

1. Routine Clean & Inspect every 3-5 years per AWWA recommendations & FAC Rule 62-555.350
2. Clean staining/ growth throughout interior and exterior

3. Exterior:
 - 3.1. Walls - Repair/ seal cracking (Minor); Patch/ spot repair areas of concrete deterioration (Minor)
 - 3.2. Access Ladder - Treat areas of corrosion (Minor); Replace corroding hardware (as needed); Ensure access ladder is in compliance with OSHA regulations: 1910.29(b)(13)(i) (No swing gate)
 - 3.3. Foundation - Rehab areas of erosion/ undermining (Mod)
 - 3.4. Roof - Touch-up / spot repair areas of coating failure (Minor); Remove abandoned hardware
 - 3.5. Access Hatch - Replace broken internal hinge system; Replace corroding hardware (as needed); Seal areas of cracking (Minor); Rehab areas of material loss localized around hatch rim and touch up coating

4. Interior:
 - 4.1. Roof - Repair areas of exposed reinforcement (Minor/ Mod); Spot repair areas of concrete deterioration (Minor/ Mod); Apply protective coating
 - 4.2. Ladder - Treat areas of corrosion (Minor); Replace corroding hardware (as needed)
 - 4.3. Floor - Rehab floor to wall expansion joints (Good to Fair); Repair/ seal areas of cracking (Minor); Rehab areas of concrete deterioration (Minor) and touch up areas of coating failure (Minor)
 - 4.4. Drain - Treat areas of corrosion/ rust noduling (Minor/ Mod); Apply protective coating
 - 4.5. Wall - Repair/ seal areas of cracking (Mod); Rehab areas of concrete deterioration (Minor abrasion) and apply protective coating
 - 4.6. Inlet - Treat areas of corrosion/ rust noduling (Mod); Apply protective coating
 - 4.7. Outlet - Treat areas of corrosion/ rust noduling (Minor/ Mod); Apply protective coating
 - 4.8. FLI - Replace corroding/ loose cables and adjust; Replace corroding hardware (as needed); Clean and reapply coating
 - 4.9. Overflow - Rehab areas of concrete deterioration (Minor pop-outs/ bug-holing/ spalling) and touch up areas of failing protective coating
 - 4.10. Manway - Replace deteriorating gasket (Mod/ Heavy); Treat areas of corrosion (Mod/ Heavy); Rehab/ replace failing protective coating (Mod)

Engineer Seal:



[This item has been electronically signed and sealed by Robert J. Norton PE (FL. Reg. 54750), on the Date shown, using a SHA authentication code.

Printed copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

Digitally signed
by Robert Norton
Date: 2025.04.22
22:30:16 -04'00'



Tank Evaluation

Tank Security

- Is the tank in a secured, gated area? Y N
- Are the access gates locked? Y N
- Is the tank equipped with a vandal guard on the access ladder(s)? Y N N/A
- Is the vandal guard locked? Y N N/A
- Are all of the access hatches locked? Y N
- Are all of the vents/discharge openings properly covered? Y N
- Does the tank exterior show any signs of trespass? Y N
- Is the area surrounding the tank well lit? Y N
- Are there any additional security features? Y N

Description: N/A

Additional Notes: Tank Location:
Water Plant at 980 NW 66th Ave.
Margate, FL 33063

Tank Condition

- Does the tank appear to be structurally sound? Y N
- Are there any unprotected openings in the tank (breaches, leaks, daylight, etc.) Y N
- Is there any protective coating found throughout the exterior of the tank? Y N Intact? Y N N/A

Description: Exterior Coating: Good to Fair Condition

- Is there any protective coating found throughout the interior of the tank? Y N Intact? Y N N/A

Description: Interior Coating: Good to Fair Condition

Tank Cleaning

Sediment depth before cleaning: 1/16" - 1/4" Sediment type: Sand

List any objects found inside the tank during cleaning that may have introduced contamination:

- None noted

Additional Pictures

Construction Plaque



Small Pop-out / Spall (Wall)



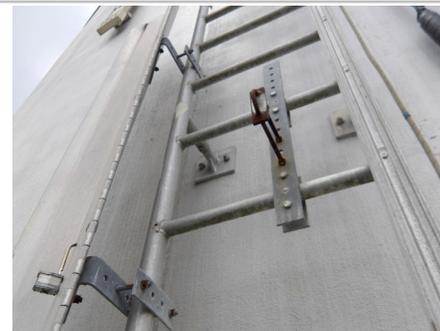
Wall Panel Condition

<p>Concrete / Coating Ratings: Signs of Leaking? Y <input checked="" type="radio"/> N <input checked="" type="radio"/> Coating Present? Y <input checked="" type="radio"/> N <input checked="" type="radio"/> <input checked="" type="checkbox"/> De-lamination: Minor <input checked="" type="checkbox"/> Abrasion: Minor <input checked="" type="checkbox"/> Pop-outs/Spalling: Minor <input type="checkbox"/> Scaling: N/A <input type="checkbox"/> Unevenness: N/A <input checked="" type="checkbox"/> Cracking: Minor <input checked="" type="checkbox"/> Growth: Minor <input checked="" type="checkbox"/> Staining: Minor <input type="checkbox"/> Exposed Aggregate: N/A <input type="checkbox"/> Exposed Reinforcement: N/A <input type="checkbox"/> Erosion: N/A</p>	<p>Corrosion Ratings(%): <input checked="" type="checkbox"/> None: N/A <input type="checkbox"/> Uniform Surface Corrosion: N/A <input type="checkbox"/> Crevice Corrosion: N/A <input type="checkbox"/> Rust Noduling/Pitting: N/A <input type="checkbox"/> Scaling: N/A <input type="checkbox"/> Other Corrosion(specify): N/A <input type="checkbox"/> Oxidation: N/A</p> <p>Depth: N/A</p> <p>Overall Condition: Good to Fair</p> <p>Additional Notes:</p> <ul style="list-style-type: none"> - Minor d-lamination noted throughout protective coating - Minor bug-holing to small pop-outs / spalling present - Preexisting repair patches in good to fair condition - Minor mineral growth localized throughout Q3 in failed patch cracking - Minor weather staining unlocalized throughout
<p>Seams/Joints Condition: Good</p>	



Access Ladder Condition

<p>Ladder Type: Welded Aluminum OSHA Adherence? Y <input checked="" type="radio"/> N <input checked="" type="radio"/> Vandal Guard Present? Y <input checked="" type="radio"/> N <input checked="" type="radio"/> Locked? Y <input checked="" type="radio"/> N <input checked="" type="radio"/> N/A <input checked="" type="radio"/> Safety Climb Type: Guided Rail Coating Present? Y <input checked="" type="radio"/> N <input checked="" type="radio"/> N/A <input checked="" type="radio"/> Ladder Ratings: <input type="checkbox"/> De-lamination: N/A <input checked="" type="checkbox"/> Staining: Minor <input type="checkbox"/> Blistering: N/A <input type="checkbox"/> Chalking: N/A <input type="checkbox"/> Checking: N/A <input type="checkbox"/> Cracking: N/A <input type="checkbox"/> Pinholes: N/A <input type="checkbox"/> Saggs/Runs: N/A</p>	<p>Corrosion Ratings(%): <input type="checkbox"/> None: N/A <input checked="" type="checkbox"/> Uniform Surface Corrosion: Approx. < 3% <input type="checkbox"/> Crevice Corrosion: N/A <input checked="" type="checkbox"/> Rust Noduling/Pitting: Approx. < 5% <input checked="" type="checkbox"/> Scaling: Approx. < 2% <input checked="" type="checkbox"/> Other Corrosion(specify): Alum: Approx. < 7% <input checked="" type="checkbox"/> Oxidation: Approx. < 10%</p> <p>Depth: 1/16"</p> <p>Standoff Supports Condition: Good</p> <p>Overall Condition: Good</p> <p>Additional Notes:</p> <ul style="list-style-type: none"> - NOT in compliance w/ OSHA regulation 1910.29(b)(13)(i) * INSTALL SWING GATE * - Oxidation & corrosion localized throughout - All aluminum construction w/ stainless steel hardware - Minor to moderate aluminum oxidation unlocalized throughout - Scaling localized in areas of heavier aluminum corrosion
<p>Seams/Welds Condition: Good</p>	



Foundation Condition

Foundation Exposed? Y N
 Coating Present? Y N N/A

Concrete Ratings:

- De-lamination: N/A
 - Abrasion: N/A
 - Pop-outs/Spalling: N/A
 - Scaling: N/A
 - Unevenness: N/A
 - Cracking: N/A
 - Growth: Minor
 - Staining: N/A
 - Exposed Aggregate: N/A
 - Exposed Reinforcement: N/A
 - Erosion: Moderate
- Type: None
Type: Organic
Type: None

Seams/Joints Condition: N/A

Anchor Bolts Present? Y N
 Anchor Bolts Loose? Y N N/A

Corrosion Ratings(%) on Anchor Bolts:

- None: N/A
 - Uniform Surface Corrosion: N/A
 - Crevice Corrosion: N/A
 - Rust Noduling/Pitting: N/A
 - Scaling: N/A
 - Other Corrosion(specify): N/A
 - Oxidation: N/A
- Depth: N/A

Overall Condition: N/A

Additional Notes:

- * Foundation buried w/ portions exposed *
- Ratings apply to exposed portions of foundation
- Moderate erosion unlocalized throughout areas of exposed foundation
- Minor to moderate undermining present where foundation is exposed



Float Level Indicator Condition

Pulley Condition: Good
 Attached Properly? Y N

Cable Condition: Good
 Attached Properly? Y N
 Overall Hardware Condition: Good

Hardware Corrosion Ratings(%):

- None: N/A
 - Uniform Surface Corrosion: Approx. < 1%
 - Crevice Corrosion: N/A
 - Rust Noduling/Pitting: N/A
 - Scaling: N/A
 - Other Corrosion(specify): N/A
 - Oxidation: Approx. < 1%
- Depth: N/A

Overall Marker Condition: Good
 Attached & Accurate? Y N

Marker Corrosion Ratings(%):

- None: N/A
 - Uniform Surface Corrosion: Approx. < 4%
 - Crevice Corrosion: N/A
 - Rust Noduling/Pitting: Approx. < 2%
 - Scaling: Approx. < 1%
 - Other Corrosion(specify): N/A
 - Oxidation: N/A
- Depth: N/A

Overall Condition: Good

Additional Notes:

- Minor weather staining present
- Minor d-lamination unlocalized throughout, exposing fiberglass
- Oxidation & corrosion localized throughout hardware



Roof Condition

Roof Type: Domed
 Dents/Low Spots? Y N
 Signs of Leaking? Y N
 Coating Present? Y N

Concrete / Coating Ratings:

- De-lamination: Minor Type: None
- Abrasion: N/A
- Pop-outs/Spalling: N/A
- Scaling: N/A
- Unevenness: N/A
- Cracking: N/A Type: None
- Growth: N/A Type: None
- Staining: Minor Type: Weather
- Exposed Aggregate: N/A
- Exposed Reinforcement: N/A
- Erosion: N/A

Seams/Joints Condition: Good

Corrosion Ratings(%):

- None: N/A
- Uniform Surface Corrosion: N/A
- Crevice Corrosion: N/A
- Rust Noduling/Pitting: N/A Depth: N/A
- Scaling: N/A
- Other Corrosion(specify): N/A
- Oxidation: N/A

Cathodic Protection Plates Present? Y N

Overall Condition: Good to Fair

Additional Notes:

- Minor d-lamination localized in areas of opened blisters
- Minor to moderate small to medium blistering unlocalized throughout
- Minor sags & runs noted
- Abandoned hardware present



Vent Condition

Vent Type:

Downturn: Y N N/A
 Vent cap condition: Good
 Is the vent covered with screening? Y N
 Type: Fine Mesh
 Vent screen condition: Good
 Are all openings sealed? Y N N/A

Coating Ratings:

- De-lamination: N/A
- Staining: Minor Type: Weather
- Blistering: N/A
- Chalking: N/A
- Checking: N/A
- Cracking: N/A Type: None
- Growth: N/A Type: None
- Pinholes: N/A
- Saggs/Runs: N/A

Corrosion Ratings(%):

- None: N/A
- Uniform Surface Corrosion: N/A
- Crevice Corrosion: N/A
- Rust Noduling/Pitting: N/A Depth: N/A
- Scaling: N/A
- Other Corrosion(specify): N/A
- Oxidation: N/A

Overall Condition: Good

Additional Notes:

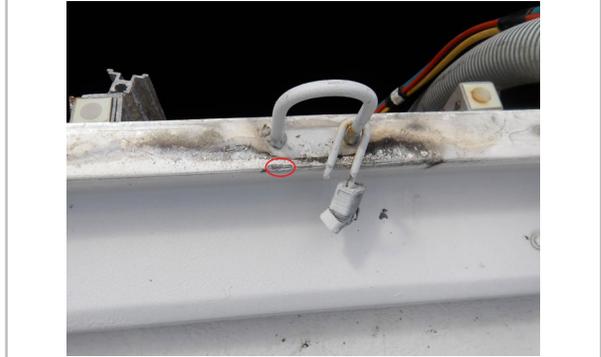
- Minor d-lamination noted throughout protective coating
- Mushroom cap design w/ an approx. 6" concrete rise
- Minor weather staining present



Access Hatch Condition

Hatch Type: Square
 Hatch Size: Approx. 36" x 36"
 Riser Height: Approx. 3"
 Hatch Locked? Y N
 Hinge Condition: Good
 Gasket Present & Intact? Y N
 Does hatch have shoe box lid? Y N
 Dents/Low Spots/ Holes? Y N
 Signs of Leaking? Y N
Coating Ratings:
 De-lamination: Minor
 Staining: Minor Type: Corrosive / Weather
 Blistering: N/A
 Chalking: N/A
 Cracking: Minor Type: Hairline / Shrinkage
 Growth: N/A Type: None
 Pinholes: N/A
 Saggs/Runs: N/A

Corrosion Ratings(%):
 None: N/A
 Uniform Surface Corrosion: Approx. < 2%
 Crevice Corrosion: N/A
 Rust Noduling/Pitting: N/A Depth: N/A
 Scaling: N/A
 Other Corrosion(specify): N/A
 Oxidation: Approx. < 3%
Seams/Welds Condition: Good
 Insects, Dirt or Debris Present Under Hatch? Y N
 Any irregularities or structural deficiencies? Y N
 Description: Material Loss & Broken Hinge System
Overall Condition: Fair
Additional Notes:
 - Minor gasket deterioration present
 - Internal hinge system is broken
 - Oxidation & corrosion localized throughout hardware
 - Minor material loss localized around hatch rim near lock



Manway Condition

Coating Ratings:
 De-lamination: N/A
 Staining: Minor Type: Weather
 Blistering: N/A
 Chalking: N/A
 Checking: N/A
 Cracking: N/A Type: None
 Growth: N/A Type: None
 Pinholes: N/A
 Saggs/Runs: N/A

Seam/Welds Condition: Good

Corrosion Ratings(%):
 None: N/A
 Uniform Surface Corrosion: N/A
 Crevice Corrosion: N/A
 Rust Noduling/Pitting: N/A Depth: N/A
 Scaling: N/A
 Other Corrosion(specify): Galv: Approx. < 4%
 Oxidation: Approx. < 5%
Overall Condition: Good
Additional Notes:
 - Galvanized steel construction
 - Gasket material painted over
 - Minor weather staining noted



Overflow Structure Condition

Coating / Concrete Ratings:

- De-lamination: N/A
- Abrasion: N/A
- Pop-outs/Spalling: N/A Type: None
- Scaling: N/A
- Cracking: N/A Type: None
- Growth: N/A Type: None
- Staining: N/A Type: None
- Exposed Aggregate: N/A
- Exposed Reinforcement: N/A
- Erosion: N/A

Corrosion Ratings(%):

- None: N/A
- Uniform Surface Corrosion: N/A
- Crevice Corrosion: N/A
- Rust Noduling/Pitting: N/A Depth: N/A
- Scaling: N/A
- Other Corrosion(specify): N/A
- Oxidation: N/A

Number of Overflows: Four(4)

Seams/Welds Condition: Good

Stand-off Supports Condition: Good

Coating Present? Y N Intact? Y N N/A

Discharge Opening(s):

- End Cap Sealed Properly? Y N N/A
- Duckbill Valve Sealed Properly? Y N N/A
- Flapper Valve Sealed Properly? Y N N/A
- Screen 24 Mesh? Y N If no, size: N/A
- Directly Connected to Sewer or Storm Drain? Y N
- Any Obstructions of Water Flow? Y N
- Height Above Ground for Discharge: Approx. 41'
- Is Discharge Spot Adequate? Y N

Overall Condition: Good

Additional Notes:

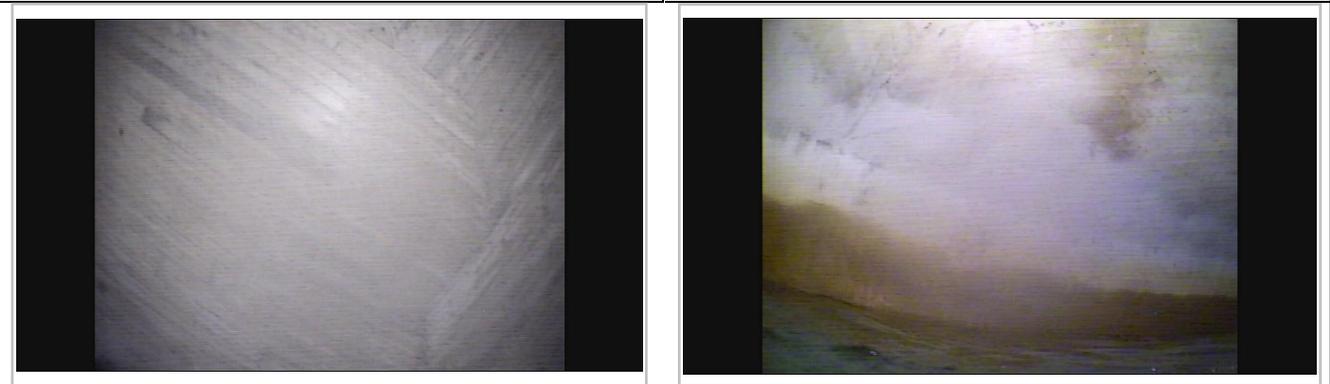
- Minor d-lamination noted throughout protective coating
- Minor sags & runs present



In Depth Inc. Interior Inspection Report

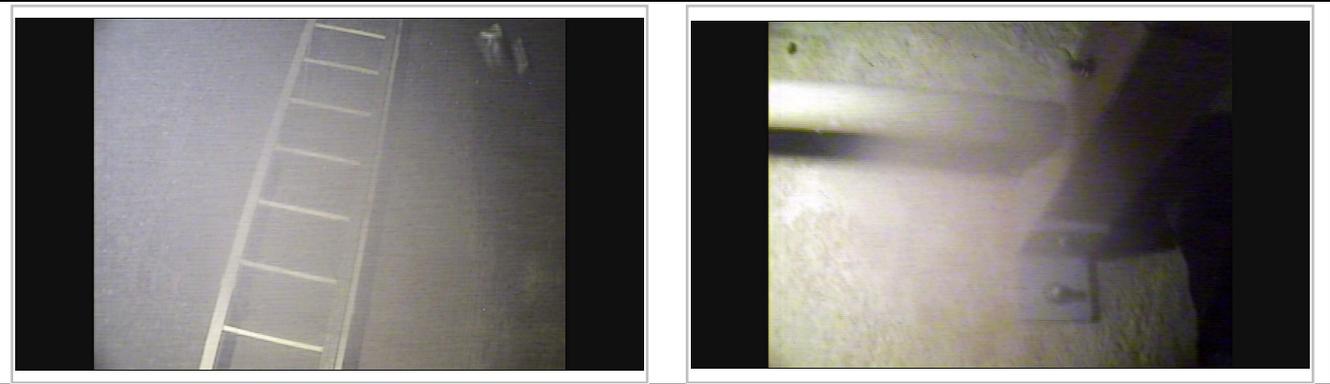
Roof Condition

<p>Concrete Ratings:</p> <p><input type="checkbox"/> De-lamination: N/A</p> <p><input type="checkbox"/> Abrasion: N/A</p> <p><input checked="" type="checkbox"/> Pop-outs/Spalling: Moderate</p> <p><input type="checkbox"/> Scaling: N/A</p> <p><input type="checkbox"/> Unevenness: N/A</p> <p><input type="checkbox"/> Cracking: N/A</p> <p><input type="checkbox"/> Growth: N/A</p> <p><input checked="" type="checkbox"/> Staining: Minor</p> <p><input type="checkbox"/> Exposed Aggregate: N/A</p> <p><input checked="" type="checkbox"/> Exposed Reinforcement: Moderate</p> <p><input type="checkbox"/> Erosion: N/A</p> <p>Seams/Joints Condition: Good</p> <p>Any irregularities or structural deficiencies? Y <input type="radio"/> N <input checked="" type="radio"/></p> <p>Description: N/A</p>	<p>Coating Present? Y <input type="radio"/> N <input checked="" type="radio"/></p> <p>Type: Bug-holing/Sm</p> <p>Type: None</p> <p>Type: None</p> <p>Type: Moisture</p> <p>Corrosion Ratings(%):</p> <p><input type="checkbox"/> None: N/A</p> <p><input checked="" type="checkbox"/> Uniform Surface Corrosion: Approx. < 4%</p> <p><input type="checkbox"/> Crevice Corrosion: N/A</p> <p><input type="checkbox"/> Rust Noduling/Pitting: N/A</p> <p><input type="checkbox"/> Scaling: N/A</p> <p><input type="checkbox"/> Other Corrosion(specify): N/A</p> <p><input checked="" type="checkbox"/> Oxidation: Approx. < 5%</p> <p>Overall Condition: Fair</p> <p>Additional Notes:</p> <ul style="list-style-type: none"> - Domed concrete roof construction - Wood form patterns left over from the construction process - Minor to moderate bug-holing to small pop-outs / spalling present - Minor to moderate exposed reinforcements unlocalized throughout <p style="text-align: right;">Depth: N/A</p>
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Ladder Condition

<p>Ladder Location: 12:00</p> <p>Ladder Ratings:</p> <p><input type="checkbox"/> De-lamination: N/A</p> <p><input checked="" type="checkbox"/> Staining: Minor</p> <p><input type="checkbox"/> Blistering: N/A</p> <p><input type="checkbox"/> Chalking: N/A</p> <p><input type="checkbox"/> Checking: N/A</p> <p><input type="checkbox"/> Cracking: N/A</p> <p><input type="checkbox"/> Growth: N/A</p> <p><input type="checkbox"/> Pinholes: N/A</p> <p><input type="checkbox"/> Saggs/Runs: N/A</p> <p>Seams/Welds Condition: Good</p>	<p>Coating Present? Y <input type="radio"/> N <input checked="" type="radio"/></p> <p>Type: None</p> <p>Type: None</p> <p>Type: None</p> <p>Corrosion Ratings(%):</p> <p><input type="checkbox"/> None: N/A</p> <p><input checked="" type="checkbox"/> Uniform Surface Corrosion: Approx. < 3%</p> <p><input type="checkbox"/> Crevice Corrosion: N/A</p> <p><input checked="" type="checkbox"/> Rust Noduling/Pitting: Approx. < 5%</p> <p><input type="checkbox"/> Scaling: N/A</p> <p><input checked="" type="checkbox"/> Other Corrosion(specify): Galv: Approx. < 8%</p> <p><input checked="" type="checkbox"/> Oxidation: Approx. < 10%</p> <p>Overall Condition: Good to Fair</p> <p>Additional Notes:</p> <ul style="list-style-type: none"> - Composite fiberglass ladder w/ stainless steel hardware - Minor sediment staining throughout - Oxidation & corrosion localized on hardware above waterline - Minor galvanic corrosion & rust noduling noted throughout safety climb <p style="text-align: right;">Depth: 1/16"</p>
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Floor Condition

Concrete Ratings:

- De-lamination: N/A
- Abrasion: Minor
- Pop-outs/Spalling: N/A
- Scaling: N/A
- Unevenness: Minor
- Cracking: Minor
- Growth: N/A
- Staining: Minor
- Exposed Aggregate: Minor
- Exposed Reinforcement: N/A
- Erosion: N/A

Coating Present? Y N

Type: None

Type: Hairline / Shrinkage

Type: None

Type: Sediment

Any identified signs of leaking? Y N

Seams/Joints Condition: Good to Fair

Sediment depth: 1/16" - 1/4"

Any irregularities or structural deficiencies? Y N

Description: N/A

Corrosion Ratings(%):

- None: N/A
- Uniform Surface Corrosion: N/A
- Crevice Corrosion: N/A
- Rust Noduling/Pitting: N/A
- Scaling: N/A
- Other Corrosion(specify): N/A
- Oxidation: N/A

Depth: N/A

Overall Condition: Good to Fair

Additional Notes:

- Minimal discrepancies noted throughout
- General concrete unevenness present throughout
- Minor sediment staining noted throughout
- Minor hairline / shrinkage cracking unlocalized throughout
- D-alloyed metal has settled into the floor
- Minor exposed aggregate unlocalized throughout
- Floor to wall expansion joint in good to fair condition



Drain Condition

Drain Location: 2:00

Coating: Y N

Drain Ratings:

- De-lamination: N/A
- Staining: Minor
- Blistering: N/A
- Chalking: N/A
- Checking: N/A
- Cracking: N/A
- Growth: N/A
- Pinholes: N/A
- Sags/Runs: N/A

Type: Corrosive

Type: None

Type: None

Seams/Welds Condition: Good to Fair

Corrosion Ratings(%):

- None: N/A
- Uniform Surface Corrosion: Approx. < 15%
- Crevice Corrosion: N/A
- Rust Noduling/Pitting: Approx. < 10%
- Scaling: N/A
- Other Corrosion(specify): N/A
- Oxidation: Approx. < 20%

Depth: 1/16"

Overall Condition: Good to Fair

Additional Notes:

- Drain sits in a sump area next to the inlet (right)
- Oxidation, corrosion, & rust noduling unlocalized throughout
- Unable to observe the inside of the plumbing
- Minor to moderate corrosive staining present



Wall Condition

Concrete Ratings:

- De-lamination: N/A
- Abrasion: Minor
- Pop-outs/Spalling: N/A
- Scaling: N/A
- Unevenness: N/A
- Cracking: Moderate
- Growth: Moderate
- Staining: Moderate
- Exposed Aggregate: N/A
- Exposed Reinforcement: N/A
- Erosion: N/A
- Saggs/Runs: N/A

Coating Present? Y N

Type: None

Type: Hairline / Shrinkage

Type: Mineral

Type: Sediment

Corrosion Ratings(%):

- None: N/A
- Uniform Surface Corrosion: N/A
- Crevice Corrosion: N/A
- Rust Noduling/Pitting: N/A
- Scaling: N/A
- Other Corrosion(specify): N/A
- Oxidation: N/A

Depth: N/A

Overall Condition: Fair

Additional Notes:

- Minor to moderate hairline / shrinkage cracking present throughout
- Minor abrasion unlocalized throughout
- Moderate sediment staining throughout
- Moderate mineral growth unlocalized throughout

Seams/Joints Condition: Good

Is biofilm present? Y N

Any irregularities or structural deficiencies? Y N

Description: N/A



Support Structure / Baffle Wall

Number of Columns: N/A

Column Ratings:

- De-lamination: N/A
- Abrasion: N/A
- Pop-outs/Spalling: N/A
- Scaling: N/A
- Cracking: N/A
- Growth: N/A
- Staining: N/A
- Exposed Aggregate: N/A
- Exposed Reinforcement: N/A
- Erosion: N/A

Coating Present? Y N

Type: None

Type: None

Type: None

Type: None

Corrosion Ratings(%):

- None: N/A
- Uniform Surface Corrosion: N/A
- Crevice Corrosion: N/A
- Rust Noduling/Pitting: N/A
- Scaling: N/A
- Other Corrosion(specify): N/A
- Oxidation: N/A

Depth: N/A

Overall Condition: N/A

Additional Notes:

N/A

Seams/Joints Condition: N/A

Any irregularities or structural deficiencies? Y N

Description: N/A

N/A

N/A



Inlet Condition

Common Inlet/Outlet? Y N
 Inlet Location: 2:00
Inlet Ratings:
 De-lamination: N/A
 Staining: Minor
 Blistering: N/A
 Chalking: N/A
 Checking: N/A
 Cracking: N/A
 Growth: N/A
 Pinholes: N/A
 Saggs/Runs: N/A
Seams/Welds Condition: Good
 Vortex Plate/Trash Rack Present? Y N

Coating Present? Y N
 Type: Corrosive

 Type: None
 Type: None

Corrosion Ratings(%):
 None: N/A
 Uniform Surface Corrosion: Approx. < 20%
 Crevice Corrosion: N/A
 Rust Noduling/Pitting: Approx. < 10% Depth: 1/16"
 Scaling: N/A
 Other Corrosion(specify): N/A
 Oxidation: Approx. < 25%
Overall Condition: Good to Fair
Additional Notes:
 - Inlet rests in a sump area next to the drain (left)
 - Oxidation, corrosion, & rust noduling unlocalized throughout
 - Minor to moderate corrosive staining present
 - Unable to observe the inside of the plumbing



Outlet Condition

Outlet Location: 3:00
Outlet Ratings:
 De-lamination: N/A
 Staining: Minor
 Blistering: N/A
 Chalking: N/A
 Checking: N/A
 Cracking: N/A
 Growth: N/A
 Pinholes: N/A
 Saggs/Runs: N/A
Seams/Welds Condition: Good
 Trash Rack Present? Y N N/A

Coating Present? Y N
 Type: Corrosive

 Type: None
 Type: None

Corrosion Ratings(%):
 None: N/A
 Uniform Surface Corrosion: Approx. < 15%
 Crevice Corrosion: N/A
 Rust Noduling/Pitting: Approx. < 8% Depth: 1/16"
 Scaling: N/A
 Other Corrosion(specify): N/A
 Oxidation: Approx. < 20%
Overall Condition: Good to Fair
Additional Notes:
 - Outlet rests in a sump area
 - Oxidation, corrosion, & rust noduling unlocalized throughout
 - Minor to moderate corrosive staining present
 - Unable to observe the inside of the plumbing due to safety concerns



Float Condition

Float Location: 12:30
Float Condition: Good
 Float Sealed? Y N
 Guidelines Condition: Good
 Attached Properly? Y N
 Cable Condition: Good to Fair
 Attached Properly? Y N
 Hardware Condition: Fair
Coating Condition: Good to Fair

Corrosion Ratings(%):
 None: N/A
 Uniform Surface Corrosion: Approx. < 4%
 Crevice Corrosion: N/A
 Rust Noduling/Pitting: Approx. < 2% Depth: 1/16"
 Scaling: Approx. < 1%
 Other Corrosion(specify): N/A
 Oxidation: Approx. < 5%
Overall Condition: Fair to Poor
Additional Notes:
 - Center cable not attached properly, cable corroding & loose
 - Oxidation, corrosion, rust noduling, & scaling localized on hardware
 - Fiberglass float w/ corrosive & sediment staining present
 - Guide wires have some give to them



Overflow Condition

Overflow Location: * See Map *
Overflow Ratings: Coating Present? Y N
 De-lamination: N/A
 Staining: Minor Type: Moisture
 Blistering: N/A
 Chalking: N/A
 Checking: N/A
 Cracking: N/A Type: None
 Growth: N/A Type: None
 Pinholes: N/A
 Sags/Runs: N/A
Seams/Welds Condition: Good
 Is anything blocking the flow? Y N
 Description: N/A

Corrosion Ratings(%):
 None: N/A
 Uniform Surface Corrosion: N/A
 Crevice Corrosion: N/A
 Rust Noduling/Pitting: N/A Depth: N/A
 Scaling: N/A
 Other Corrosion(specify): N/A
 Oxidation: N/A
Overall Condition: Good to Fair
Additional Notes:
 - Tank equipped w/ four(4) frog eye overflows
 - Minor bug-holing to small pop-outs / spalling unlocalized throughout
 - Minor moisture staining noted



Manway Condition

Manway Location: 1:00

Manway Ratings:

- De-lamination: Minor
- Staining: Minor
- Blistering: Minor
- Chalking: Moderate
- Checking: N/A
- Cracking: Minor
- Growth: N/A
- Pinholes: N/A
- Saggs/Runs: Moderate

Coating Present? Y N

Type: Corrosive

Type: Coating Failure

Type: None

Corrosion Ratings(%):

- None: N/A
- Uniform Surface Corrosion: Approx. < 15%
- Crevice Corrosion: N/A
- Rust Noduling/Pitting: Approx. < 35% Depth: 1/16"
- Scaling: Approx. < 2%
- Other Corrosion(specify): Galv: Approx. < 45%
- Oxidation: Approx. < 60%

Overall Condition: Fair to Poor

Additional Notes:

- Galvanized steel manway lid w/ a stainless steel insert
- Oxidation, corrosion, & rust noduling unlocalized throughout insert
- Moderate to heavy galvanic corrosion & rust noduling noted on manway
- Moderate/ Heavy gasket deterioration present
- Minor d-lamination & small to medium blistering noted

Seam/Welds Condition: Good to Fair

Gasket Condition: Poor



Additional Pictures

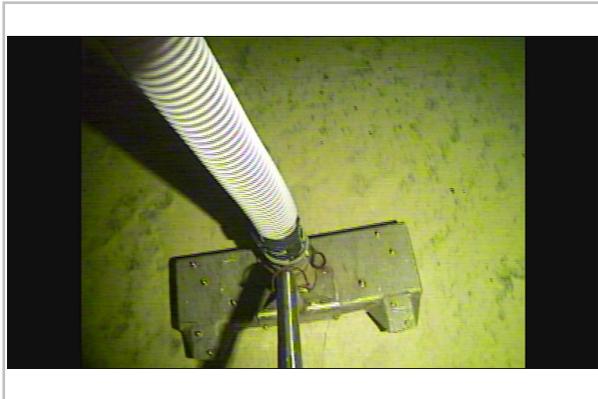
Labeled Valve



Painted Gasket



Cleaning Process



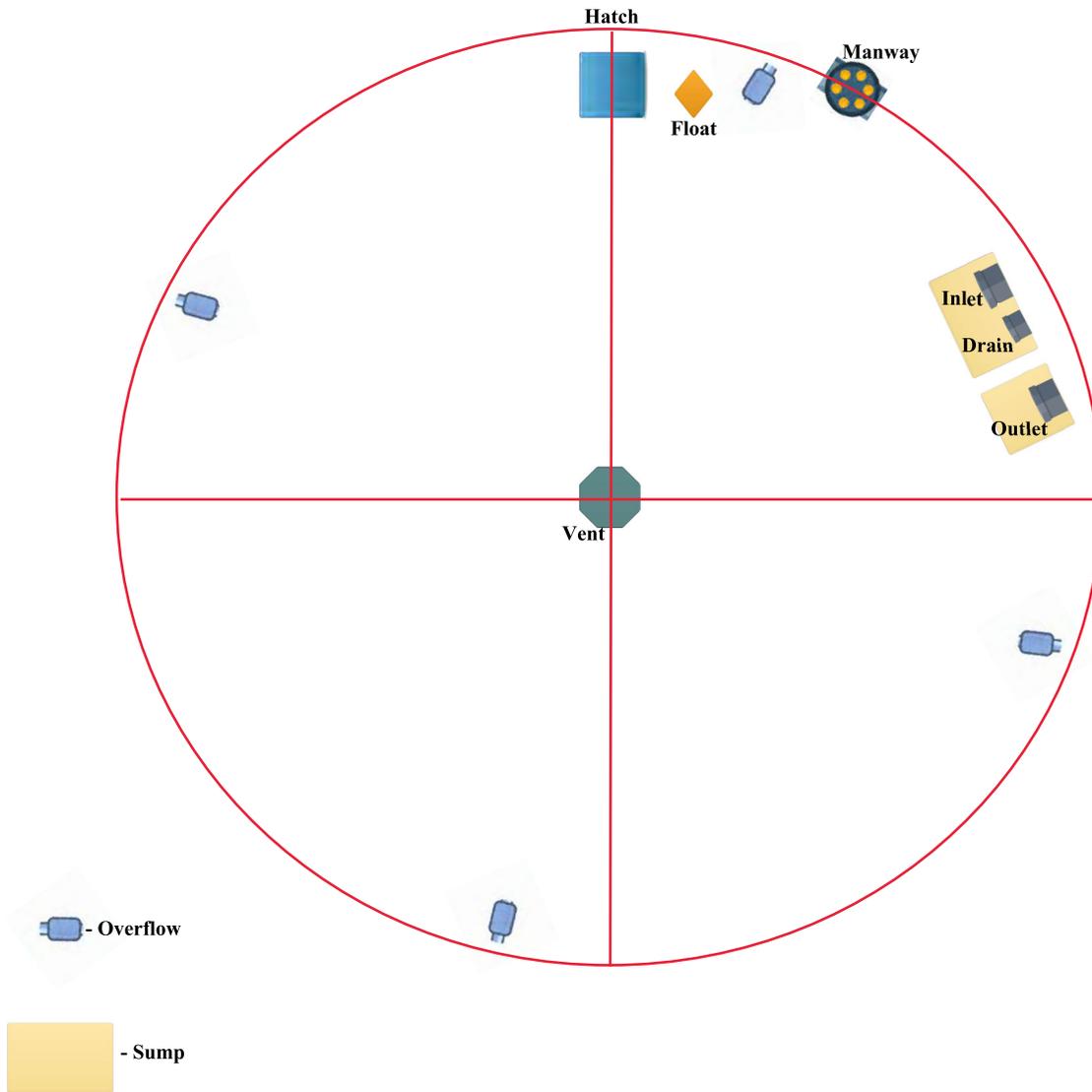
Capped Roof Penetration



Tank Layout

Quadrant #4

Quadrant #1



Quadrant #3

Quadrant #2

Client: City of Margate
Asset ID: 2MG Reservoir

Date: 04/01/2025

